

FIG. 1 System for Selecting Television Channels for display on a Television Receiver

The diagram illustrates a cable TV system with the following components and connections:

- Premium Cable** (top section):
 - Contains **DIS** and **program guide 20**.
 - Connected to the **tv receiver 13** via a line labeled **20**.
- TV Receiver 13** (middle section):
 - Contains a **displayed portion of program guide 21**.
 - Shows a schedule for **11:00 AM 7-15-97** with the following programs:
 - 2 I Love Lucy
 - 3 Sesame St.
 - ...
 - 20 Dr. Quinn
- Basic Cable** (bottom section):
 - Contains **61 Honeymooners** and **AMC**.
 - Connected to the **tv receiver 13** via a line labeled **13**.

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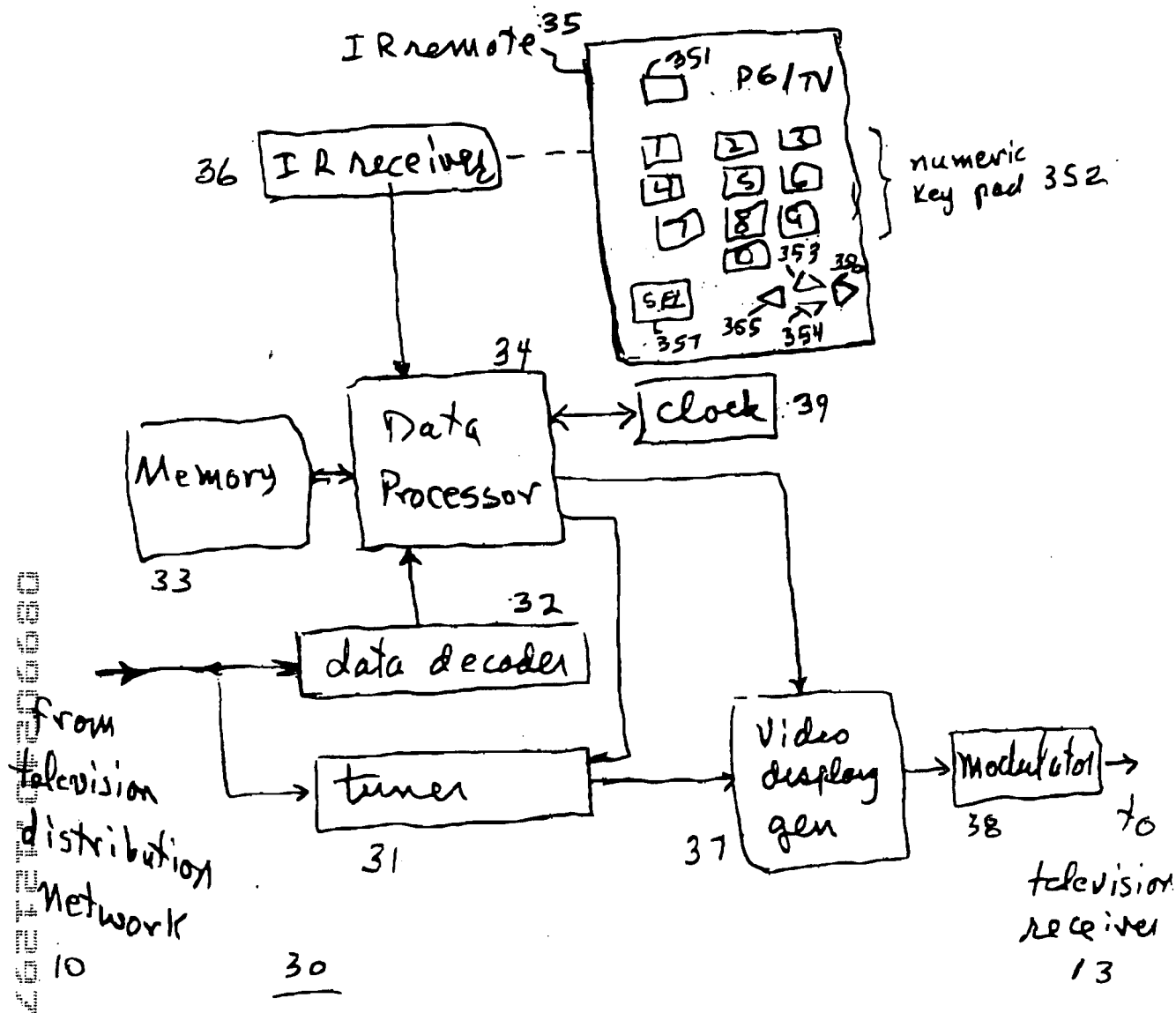


FIG. 3 User-Interface unit for
an Interactive Electronic
Program Guide, (Prior Art)

42 CP6 (blinking)

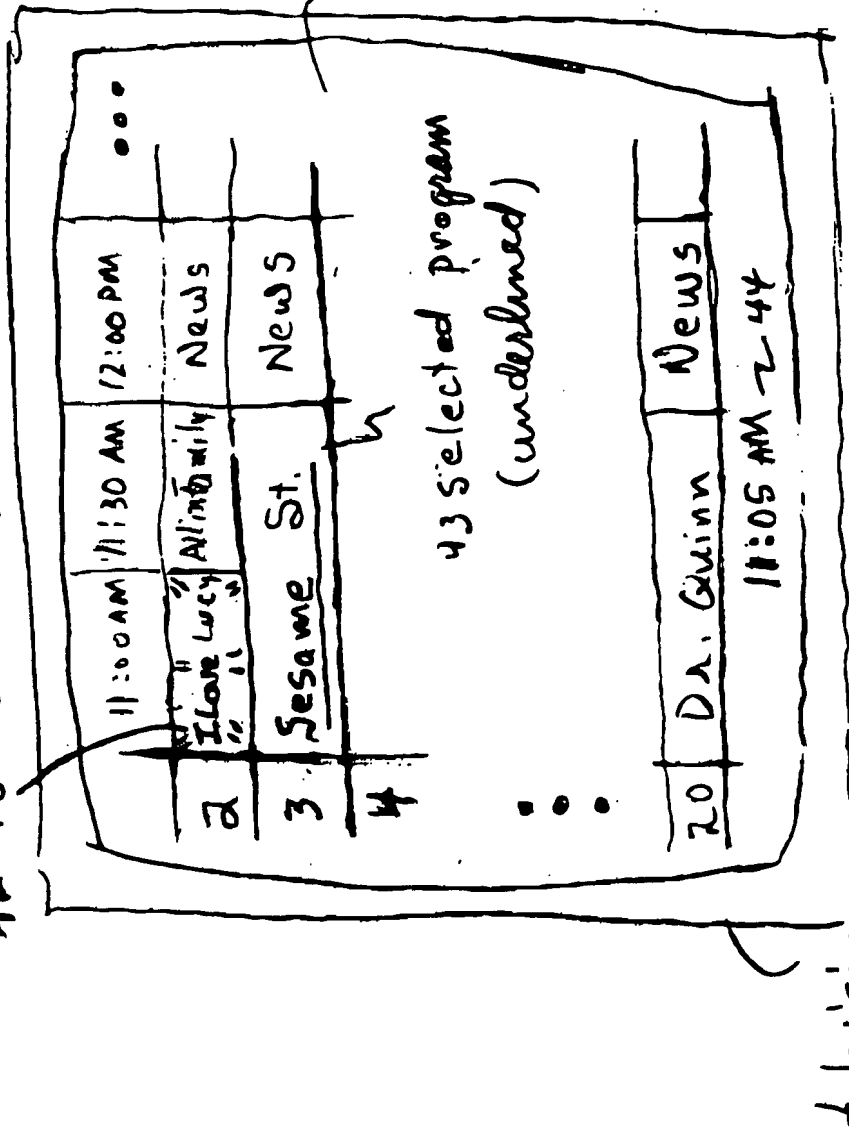


FIG. 4 Program Guide Displayed on a Television Receiver

Interactive Electronic Program-Guide System with Sideways Scrolling Capability

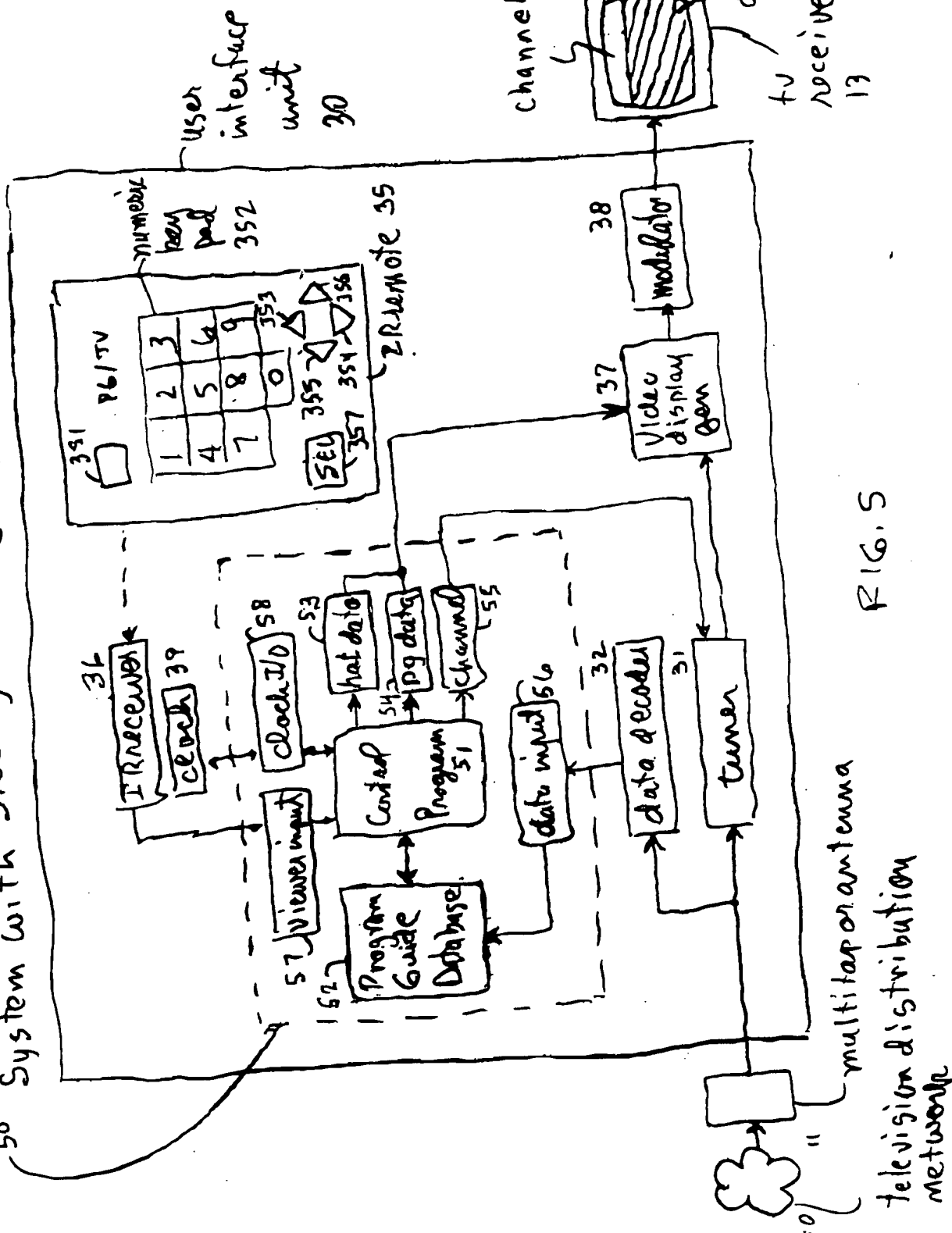


FIG. 5

611 channel number
 612 title
 613 first time slot
 614 start offset
 615 length
 616 end offset
 617 category
 :

61

FIG. 6A Program-Guide Database

63 SLE Surf left enable
 64 SLN Surf left channel no.
 65 SRE Surf right enable
 66 SRN Surf right channel no.
 67 NCN Next Category channel no.
 68 PCN Previous Category Channel no.

FIG. 6C Variables Maintained by
 Electronic Program Guide to
 Support Sideways Surfing

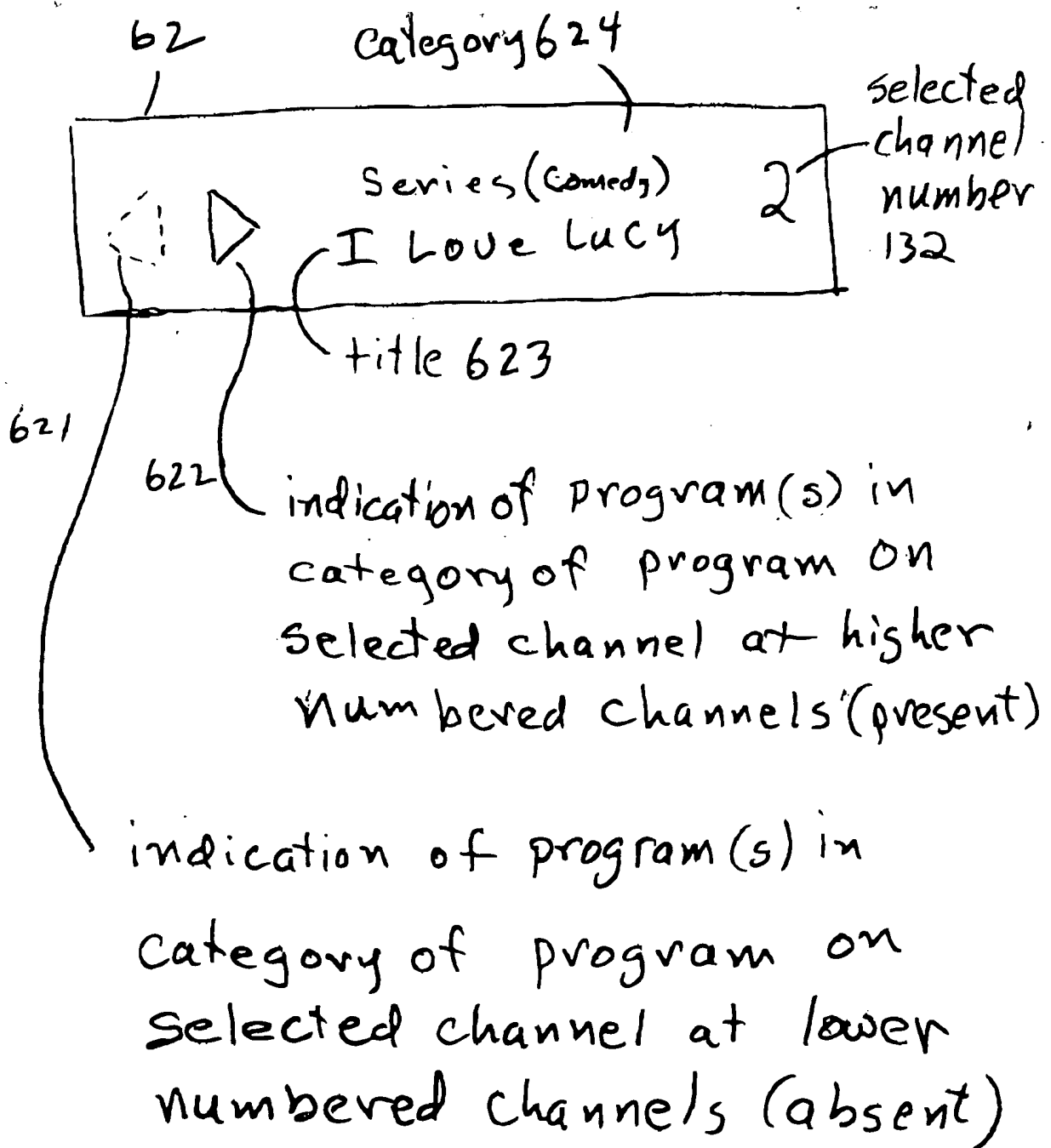
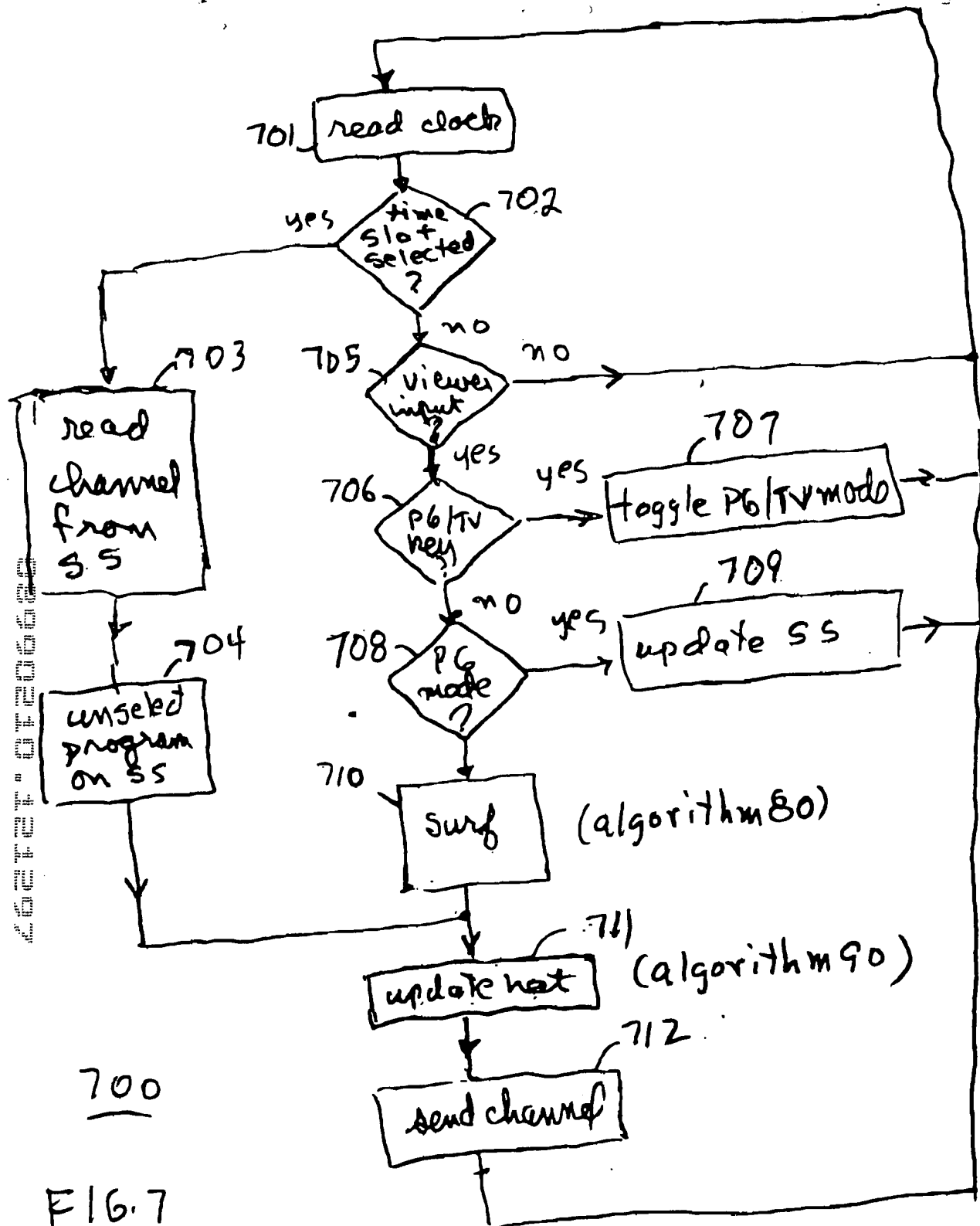


FIG. 6B Channel Hat



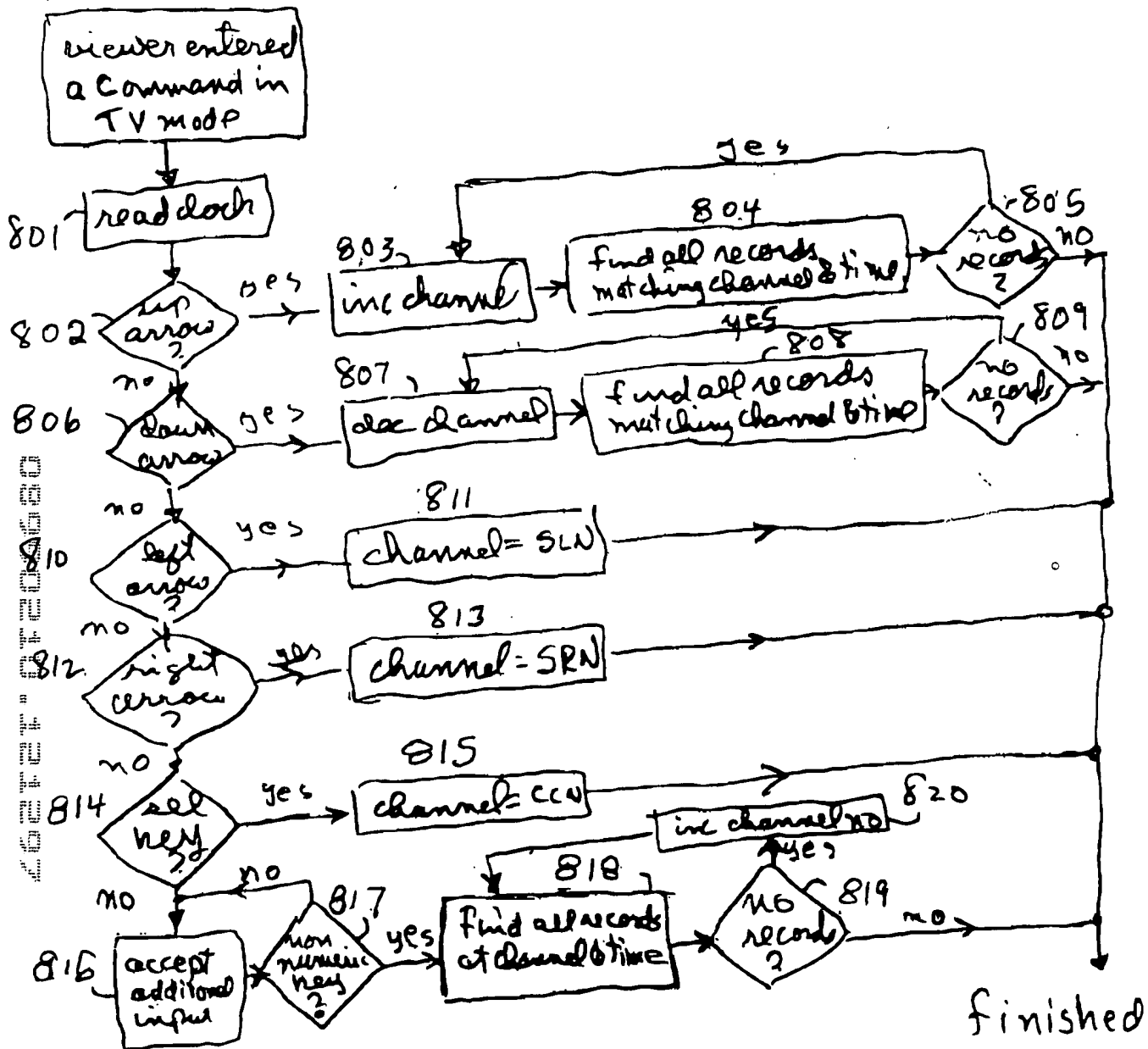
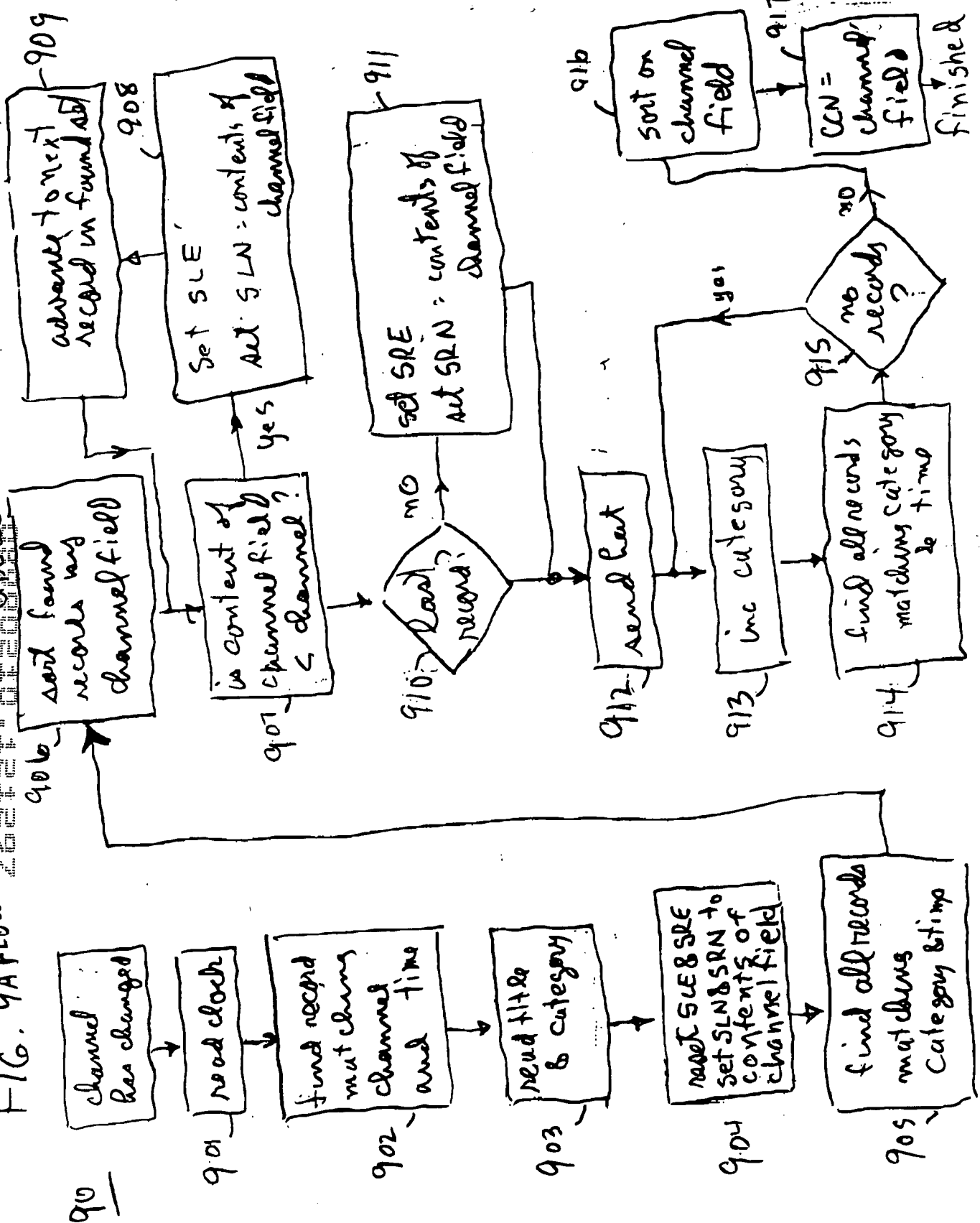


FIG. 8 Flow Chart of Algorithm
used in Selecting Channels
and Surfing in TV mode.

FIG. 9A Flow Chart of Algorithm used to Update the Channel Hat and



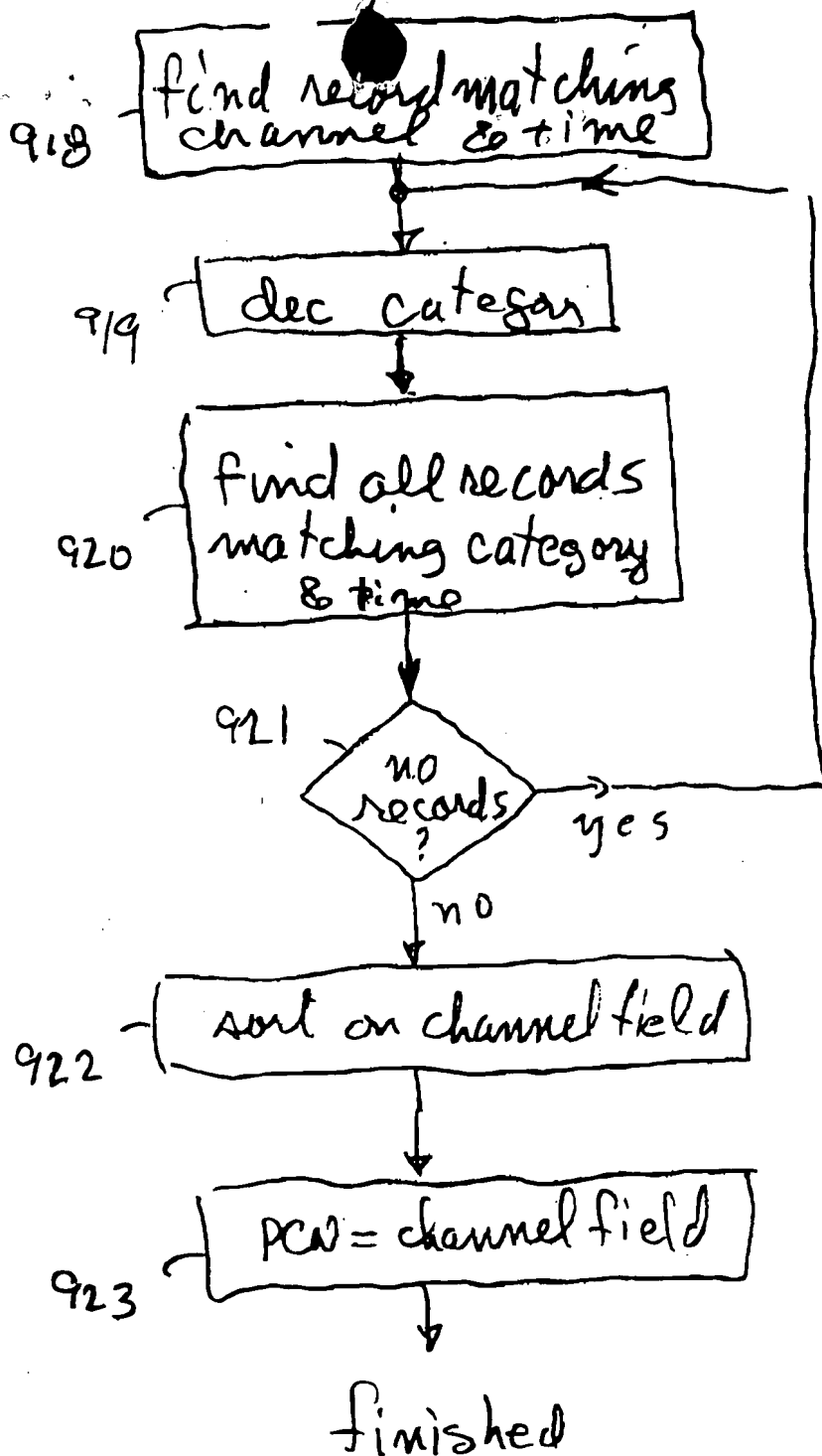


FIG. 9B Steps Added to Algorithm 90
to Prepare for Surfing to a
Channel Carrying a Program in the
Previous Category